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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/082,844	02/25/2002	Stephen E. Terry	I-2-0160.2US	8107
24374	7590	08/10/2005	EXAMINER	
VOLPE AND KOENIG, P.C. DEPT. ICC UNITED PLAZA, SUITE 1600 30 SOUTH 17TH STREET PHILADELPHIA, PA 19103			SHAND, ROBERTA A	
			ART UNIT	PAPER NUMBER
			2665	

DATE MAILED: 08/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/082,844

Applicant(s)

TERRY, STEPHEN E.

Examiner

Roberta A. Shand

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 May 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 2 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2/16/05, 05/26/05.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haartsen (U.S. 5898929) in view Longoni (U.S. 2001/0046240 A1).

3. Regarding claim 1, Haartsen teaches (fig. 3) a method (col. 5, line 44-67) of using a mobile terminal (30) for synchronizing uplink signals in a communication system which supports base station (10) / mobile terminal (30) wireless bi-directional communications via the utilization of a time frame having sequentially identified system time frames, comprising: receiving data from a base station (10) within system time frames including a TA signal (col. 6, lines 17-48); and adjusting the timing of uplink transmissions of the mobile terminal in response to the TA data.

4. Haartsen does not teach receiving TA data and connection frame number specifying a specific frame for effectuating a timing adjustment; and adjusting the timing of uplink transmissions of the mobile terminal in response to the TA data in specified in the CFN of the received TA signal.

5. Longoni teaches (figs. 2A and 2B) using CFN (common frame numbering) scheme to synchronize the MS with the RNC, where a frame has a CFN and the RNC must synchronize its CFN scheme with the MS's CFN scheme (page 2, paragraph 14). CFN is a timing reference

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which allows the MS and the BS via the RNC to synchronize with each other (page 1, paragraph 9). It would have been obvious to one of ordinary skill in the art to adapt this scheme taught by Longoni to Haartsen's system to maintain synchronization within the entire system (page 1, paragraph 11).

6. Regarding claim 2, Haartsen teaches (fig. 3) a mobile terminal (30) which supports base station (10) / mobile terminal (30) wireless bi-directional communications via the utilization of a time frame having sequentially identified system time frames (figs. 4 and 5), where base stations transmit selectively formatted communication data to mobile terminals within system time frames comprising: a receiver, a transmitter and an associated processor; receiver for receiving data from a base station (10) within system time frames including a TA signal (col. 6, lines 17-48) for effectuating a timing adjustment; transmitter for transmitting selectively formatted communication data to a base station within system time frames synchronized by the processor (col. 5, line 44-67); and processor for adjusting the timing of uplink transmissions of the mobile terminal in response to the TA data.

7. Haartsen does not teach receiving TA data and connection frame number specifying a specific frame; and processor for adjusting the timing of uplink transmissions of the mobile terminal in response to the TA data in specified in the CFN of the received TA signal.

8. Longoni teaches (figs. 2A and 2B) using CFN (common frame numbering) scheme to synchronize the MS with the RNC, where a frame has a CFN and the RNC must synchronize its CFN scheme with the MS's CFN scheme (page 2, paragraph 14). CFN is a timing reference which allows the MS and the BS via the RNC to synchronize with each other (page 1, paragraph

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9). It would have been obvious to one of ordinary skill in the art to adapt this scheme taught by Longoni to Haartsen's system to maintain synchronization within the entire system (page 1, paragraph 11).

Conclusion

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberta A Shand whose telephone number is 571-272-3161. The examiner can normally be reached on M-F 9:00am-5:30pm.
2. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
3. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roberta A Shand
Examiner
Art Unit 2665



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